

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P745795

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR1515309040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2665.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



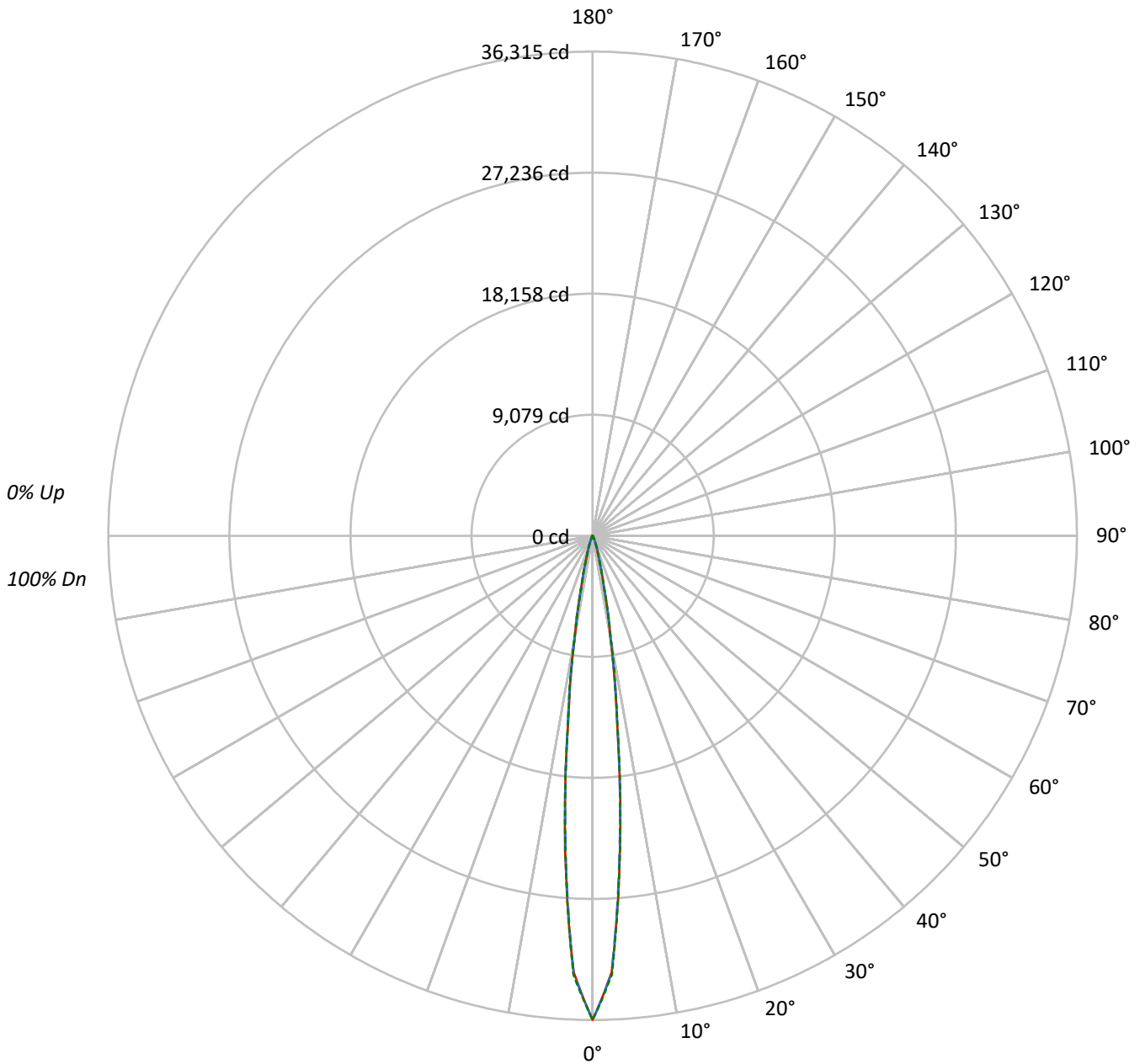
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4086162	4086162	4086162
5°	2401217	2370128	2388879
10°	716649	721669	732717
15°	178256	181731	176120
20°	53332	61760	54469
25°	18805	23954	19039
30°	6904	9091	7024
35°	3464	3907	3348
40°	2180	2400	2180
45°	1617	1722	1617
50°	1279	1279	1279
55°	1072	1072	1072
60°	864	864	864
65°	657	657	657
70°	563	563	563
75°	348	348	461
80°	244	244	244
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1728.7	64.9
10°-20°	711.0	26.7
20°-30°	141.2	5.3
30°-40°	35.2	1.3
40°-50°	18.5	0.7
50°-60°	13.7	0.5
60°-70°	9.7	0.4
70°-80°	5.5	0.2
80°-90°	1.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2580.9	96.8
0°-40°	2616.2	98.2
0°-60°	2648.4	99.4
0°-90°	2665.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36315	36315	36315	36315	36315	
5°	23627	23384	23321	23483	23506	1725
15°	2052	2091	2092	2055	2028	704
25°	241	274	308	272	244	127
35°	48	51	54	51	46	32
45°	23	23	25	23	23	18
55°	15	15	15	15	15	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	5
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	36315.0	36315.0	36315.0	36315.0	36315.0
2.5°	32757.6	32785.2	32796.0	32828.3	32948.2
5°	23627.3	23384.4	23321.4	23482.8	23505.9
7.5°	13995.9	14045.1	14225.0	14264.9	14120.4
10°	7680.5	7743.6	7734.3	7789.7	7852.7
12.5°	3927.9	3878.7	3863.3	3926.4	3838.7
15°	2052.3	2090.8	2092.3	2055.4	2027.7
17.5°	1103.8	1148.4	1222.2	1162.2	1070.0
20°	651.8	691.8	754.8	705.6	665.7
22.5°	402.8	435.1	479.6	441.2	408.9
25°	241.4	273.6	307.5	272.1	244.4
27.5°	143.0	170.6	192.2	169.1	141.4
30°	92.2	107.6	121.4	106.1	93.8
32.5°	64.6	70.7	76.9	70.7	64.6
35°	47.7	50.7	53.8	50.7	46.1
37.5°	36.9	40.0	41.5	38.4	35.4
40°	30.7	32.3	33.8	32.3	30.7
42.5°	26.1	27.7	27.7	27.7	26.1
45°	23.1	23.1	24.6	23.1	23.1
47.5°	20.0	20.0	21.5	20.0	20.0
50°	18.4	18.4	18.4	18.4	18.4
52.5°	16.9	16.9	16.9	16.9	16.9
55°	15.4	15.4	15.4	15.4	15.4
57.5°	13.8	13.8	13.8	13.8	13.8
60°	12.3	12.3	12.3	12.3	12.3
62.5°	10.8	10.8	10.8	10.8	10.8
65°	9.2	9.2	9.2	9.2	9.2
67.5°	9.2	9.2	9.2	9.2	9.2
70°	7.7	7.7	7.7	7.7	7.7
72.5°	6.1	6.1	6.1	6.1	6.1
75°	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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